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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,965	02/04/2004	Kazuhiko Gogo	14470.22US01	5309
7590                    03/09/2007 HAMRE,SCHUMANN,MULLER & LARSON, P.C. P.O. BOX 2902-0902 MINNEAPOLIS, MN 55402			EXAMINER SY, MARIANO ONG	
		ART UNIT 3683	PAPER NUMBER	
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	03/09/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/772,965	GOGO, KAZUHIKO
	<b>Examiner</b> Mariano Sy	<b>Art Unit</b> 3683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 13 December 2006.

2a) This action is **FINAL**.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1,2 and 4 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) 2 and 4 is/are allowed.

6) Claim(s) 1 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date: _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date: _____	5) <input type="checkbox"/> Notice of Informal Patent Application
	6) <input type="checkbox"/> Other: _____

## DETAILED ACTION

1. The amendment filed on December 13, 2006 has been received.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 1 rejected under 35 U.S.C. 103(a) as being unpatentable over Reeves (US 6,478,121) in view of Rath (US 3,782,510).

Re-claim 1 Reeves teaches, as shown in the fig. 4-9, a disk brake caliper having a plurality of pistons, mounted in the cylinders 110 of the piston mounting sections 107, built into a caliper body having a substantially U-shaped cross section with an outer section 116 and an inner section 101 connected by a bridge section 114, an outer pad attached to the outer section and an inner pad attached to the inner section, and an outer periphery of a brake disk (shown in fig. 9 in dot outline) inserted between the outer pad and the inner pad, wherein part of each piston projects beyond an outer peripheral edge of the brake disk (see fig. 9) to an outer side, part of the bridge section projects further radially inwards than outer peripheral edges of the pistons and the projecting part of the bridge section projects between the pistons and the projecting part between the pistons extends from the inner section to the outer section of the caliper body, and

the plurality of pistons being lined up along the outer peripheral edge of the brake disk at specified intervals, (see fig. 6 and 9 and col. 5, lines 64- 67 and col. 6, lines 1-23).

However Reeves was silent to show wherein the outer pad and inner pad do not project out further than the outer peripheral edge of the brake disk.

Rath disclosed, as shown in fig. 4, wherein the outer pad and inner pad do not project out further than the outer peripheral edge of the brake disk.

It would have been obvious to one of ordinary skill in the art to have made the disk brake unit of Reeves wherein the outer pad and inner pad do not project out further than the outer peripheral edge of the brake disk, as taught by Rath, which is old and well known as a matter of design choice in order to provide the entire pad surface area having friction contact with the brake disk.

4. Claims 2 and 4 are allowed.

5. Applicant's arguments filed December 13, 2006 have been fully considered but they are not persuasive.

Examiner maintains Reeves (US 6,478,121) shows projecting part 103, between the pistons, from inner section 101 (fig. 4) extends to the projecting part 109 (fig. 6) outer section 116, since Applicant is not claiming extends continuously from inner to outer section of the caliper body.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mariano Sy whose telephone number is 571-272-7126. The examiner can normally be reached on Mon.-Fri. from 8:30 A.M. to 2:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James McClellan, can be reached on 571-272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. Sy

February 27, 2007

DEVON C. KRAMER  
PATENT EXAMINER  
Devon Kramer  
3/1/07